

III. Amendments to the Specification

Please amend Paragraphs [0002], [0032], [0033], [0041] and [0042] of the Specification as follows:

[0002] The present invention relates to a micro component reactor module useful with a hydrogen generation system that provides a source of hydrogen for a fuel cell. Hydrogen fuel cells are non-polluting and highly efficient power sources (*e.g.*, ~~<www.eren.doe.gov/RE/hydrogen_fuel_cells.html>~~ FUEL CELLS GREEN POWER, Los Alamos National Laboratory, U.S. Department of Energy. URL: www.eren.doe.gov/RE/hydrogen_fuel_cells.html (1999-)) that are being developed for use in automotive, mobile and personal use applications having predetermined power output requirements where mobile, convenient, safe and compact power units are required.

[0032] The pathway of reactant flow, depicted as feed gas, is shown in Figure 1C. With reference to the elements of the reactor shown in Figure 2A, the The feed gas enters the top or bottom inlet ~~7a, 7b~~ 10a, 10b and passes to the one or more than one heat exchanger 1a, 1b. The feed gas flows through the heat exchanger 1a, 1b where it exits at the interior rear portion of the polyhedron. The feed gas then enters the a chamber 16a, etc., passes the catalyst 24, exits the front of the chamber block 2, and is exhausted through one or more outlet 11a, etc.

[0033] The pathway of fluid, depicted as water/low grade steam, is also shown in FIG. 1C. With reference to the elements of the reactor shown in Figure 2A, fluid Fluid passes through an inlet 7a, 7b into one or more heat exchanger 1a, 1b and exits as steam through an outlet 9a, 9b.

[0041] Referring to Figures 1E and 2A, the reactor module 40 includes one or more than one screen ~~47F-47R~~ 17f, 17r which confines the catalyst in the chamber block 2. Although Figure 2A depicts a screen 17f, 17r, alternative porous materials may be used, such as a metal screen or frit.

[0042] The one or more than one screen 17f, 17r includes openings 19a, 19b, ... 19p to accommodate fasteners 20a, 20b, ... 20p to secure the rear cover 18 or the exhaust cover 21 which may be fastened in alternative manners, such as welding or other fastening methods. The exhaust cover 21 shown in Figure 2A includes an openings 22a, 22b, ... 22i in correspondence with each of the one or more than one cavity 16a, 16b, ... 16x. Figures 3A and 3B show examples of exhaust covers 21. Referring to Figure 3A, the exhaust cover 21 may be designed in a nine port exit exhaust manifold 25. In Figure 3A, each opening 27a, 27b, ... 27x corresponds to a cavity 16a, 16b, ... 16x. Figure 3B shows an exhaust cover 21 that comprises a continuous single exit exhaust manifold 26. The continuous single exit exhaust manifold 26 comprises an opening 27j sufficient to encompass the one or more than

one cavity 16a, 16b, ... 16x. The manifold 26 may taper continuously or regularly or irregularly incrementally in progressively smaller toward exhaust end 28.

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